BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, DASARAHALLI DIVISION

Name of the Work : Improvements of Road and Drain in Gangamma Police Station beside Road in Ward No.12 Shettyhalli Sub Division.

SCHEDULE-B					
Sl No	Description of Item	Unit	Quantity	Rate in Rs.	
				In Fig	In Words
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) as per the directions of Engineer Incharge	Sqm	773.78	111.30	Rupees One Hundred Eleven and Thirty Paisas Only
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 as per the directions of Engineer Incharge	Cum	441.00	233.20	Rupees Two Hundred Thirty Three and Twenty Paisas Only
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 as per the directions of Engineer Incharge	Cum	66.15	5593.09	Rupees Five Thousand Five Hundred Ninety Three and Nine Paisas Only
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. do- Wall & bottom thickness 15cm as per the directions of Engineer Incharge	Cum	160.20	7189.45	Rupees Seven Thousand One Hundred Eighty Nine and Fourty Five Paisas Only
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work TMT bars Fe500 including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3 as per the directions of Engineer Incharge	Tonne	8.01	75223.96	Rupees Seventy Five Thousand Two Hundred Twenty Three and Ninety Six Paisas Only

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	Description of Item	Unit	Quantity	Rate in Rs.	
				In Fig	In Words
6	Providing and fixing precast reinforced cement concrete covering slabs of 10cm thick made out of M25 with OPC cement @340kgs per cum, 20mm and down size graded granite metal course aggregates @0.70cum and fine aggregated @0.74 cum with super plasticizers, machine mixed, including providing and removing centering, shuttering, strutting propping etc., for edges of slab with TMT steel (Fe500) cost & reinforcement charges, including finishing as required with cost of reinforcement etc, complete as directed by Engineer in Charge of the work.	Sqm	178.20	1615.00	Rupees One Thousand Six Hundred Fifteen Only
7	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5 cms thick as per the directions of Engineer Incharge	Sqm	35.28	742.00	Rupees Seven Hundred Forty Two Only
8	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.as per the directions of Engineer Incharge	Nos	1073.00	435.75	Rupees Four Hundred Thirty Five and Seventy Five Paisas Only
9	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 as per the directions of Engineer Incharge	Sqm	144.90	84.80	Rupees Eighty Four and Eighty Paisas Only
10	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3 as per the directions of Engineer Incharge	Sqm	1894.40	44.03	Rupees Forty Four and Three Paisas Only
11	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 as per the directions of Engineer Incharge	Cum	2652.46	79.30	Rupees Seventy Nine and Thirty Paisas Only

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	Description of Item	Unit	Quantity	Rate in Rs.	
				In Fig	In Words
12	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 as per the directions of Engineer Incharge	Sqm	8057.20	6.36	Rupees Six and Thirty Six Paisas Only
13	0400 Stone Dust/Grit 4.75 mm to 0.075 mm as per the directions of Engineer Incharge	Cum	557.76	1000.00	Rupees One Thousand Only
14	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. as per the directions of Engineer Incharge	Cum	1223.21	1994.92	Rupees One Thousand Nine Hundred Ninety Four and Ninety Two Paisas Only
15	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 as per the directions of Engineer Incharge	Cum	1630.94	2001.28	Rupees Two Thousand One and Twenty Eight Paisas Only
16	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision as per the directions of Engineer Incharge	Sqm	5821.00	28.62	Rupees Twenty Eight and Sixty Two Paisas Only
17	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision as per the directions of Engineer Incharge	Sqm	7480.00	5.30	Rupees Five and Thirty Paisas Only

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	Description of Item	Unit	Quantity	Rate in Rs.	
				In Fig	In Words
18	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision as per the directions of Engineer Incharge	Sqm	11511.50	12.72	Rupees Twelve and Seventy Two Paisas Only
19	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site., laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen as per the directions of Engineer Incharge	Cum	575.58	6597.44	Rupees Six Thousand Five Hundred Ninety Seven and Forty Four Paisas Only
20	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30–45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) as per the directions of Engineer Incharge	Cum	325.52	7753.90	Rupees Seven Thousand Seven Hundred Fifty Three and Ninety Paisas Only
21	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface/Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 as per the directions of Engineer Incharge	Sqm	383.35	454.74	Rupees Four Hundred Fifty Four and Seventy Four Paisas Only

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No	Description of Item	Unit	Quantity	Rate in Rs.	
				In Fig	In Words
22	KSRRB M800 Road markers / Road stud KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer as per the directions of Engineer Incharge	Nos	1248.00	357.22	Rupees Three Hundred Fifty Seven and Twenty Two Paisas Only

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